

Be sure to read this manual before use

XPERIA Z1 SOL23

Cautions on using Xperia™ Z1

Safety Precautions (Observe Strictly)

Handling precautions

Specific Absorption Rate (SAR) of cell phones

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- In this manual, "Setting Guide", "Basic Manual", "取扱説明書詳細版(Full Instruction Manual)" (Japanese), "Cautions on using Xperia™ Z1", "携帯電話機の比較率などについて(Radio Frequency (RF) exposure and Specific Absorption Rate (SAR))" are collectively referred to as "Instruction Manual".
- In this manual, "microSD™ memory card", "microSDHC™ memory card" and "microSDXC™ memory card" are abbreviated as "microSD memory card" or "microSD".
- In this manual, "Xperia™ Z1" is usually referred to as "the product".

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The customer is not allowed to disassemble, modify or repair the product. Doing so might cause a fault, ignition, electric shock, or injury. The Company is not liable even in the event of any nonconformities arising on the product or peripheral devices as a result of modification, etc. Modification of the product is in violation of the Wireless Telegraphy Act.

**Warning**

Be sure to read the following warnings before use.

Do not drop or subject to strong impact, such as throwing. Doing so might cause rupture, overheating, fire, leakage or a fault.

Do not use outside when you can hear thunder. Doing so might risk lightning strikes and electric shock.

Do not let your hands, fingers and other parts of the body touch the desktop holder contact terminal, microUSB connection terminal or headset connection terminal. Doing so might cause electric shock, injury or a fault.

If the product is damaged because it is dropped or something, and its display is cracked or internal parts are exposed, do not touch the cracked display or exposed parts with your hands. Doing so might cause electric shock or injury from damaged parts. Contact an au shop or Secure cell phone support center.

Charging with the product wet might cause electric shock or short-circuiting or corrosion of electronic circuits, resulting in fire from fire or faults.

Although this product model has waterproof property, stop use if liquid such as water gets inside the main unit from the microUSB connection terminal, microSD memory card slot or au Micro IC Card (LTE) slot. Continued use of the product in this state might cause overheating, fire or a fault.

Do not operate the product while driving an automobile or motorized bicycle, riding a bicycle or walking. Doing so may compromise traffic safety and cause an accident.

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- When using the product near an implanted pacemaker, implanted cardioverter-defibrillator or other electronic medical device, radio waves might affect these units and devices. So, please observe the following.
  - Those with an implanted pacemaker or implanted cardioverter-defibrillator should carry or use the product at least 15 cm away from the implanted pacemaker or implanted cardioverter-defibrillator.
  - Set the product to "Airplane Mode" or turn it off beforehand, if you may not keep distance 15 cm or more such as when you cannot move easily etc., since there may be people with an implanted cardiac pacemaker or implanted cardioverter-defibrillator nearby.
  - Pay attention to the following points when using the product inside medical institutions.
    - Do not bring the product into operating theaters, intensive-care units (ICU) and coronary care units (CCU).
    - Turn the product off in hospital wards.
    - Even if you are in a lobby, etc., be sure to turn the product off when there are electronic medical devices nearby.
    - When a medical institution has laid down designated areas where use of the product is prohibited or is not allowed to be brought in, abide by the instructions of that medical institution.
  - When using electronic medical devices other than an implanted pacemaker and implanted cardioverter-defibrillator outside a medical institution (e.g. home medical treatment), check individually with the manufacturer of the electronic medical device regarding the influence of radio waves.
- Stay alert to your surroundings when calling, messaging, browsing the Internet, shooting photos, playing games, watching TV or listening to music. Failure to do so might cause a fall or traffic accident.
- Do not send data by infrared communication with the infrared port pointing toward eyes. Doing so might affect eyes. Also, sending data with the infrared port pointing toward some other infrared device might cause false operation, etc.
- Do not light the flash/photo light in front of a person's eyes. Do not gaze at the light emitting part when the flash/photo light is lighted. Doing so might cause impairment of eyesight, etc. Be especially careful not to shoot small children from a very close distance.

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Charging equipment

**Warning**

Be sure to read the following warnings before use.

Do not use at other voltages than the specified power supply voltage. Doing so might cause ignition, fire, overheating or electric shock. AC adapter (sold separately): 100 VAC to 240 VAC (Connect to the AC outlet for internal household use) When charging the product overseas, use AC Adapter for global use (sold separately).

Firmly insert the plug of the specified charging equipment (sold separately) into the power outlet down to the base of its pins. Incomplete insertion of the power plug might result in electric shock or fire caused by overheating and fire. Do not use damaged adapters or loose power outlets.

Do not damage, modify, twist, pull or place a heavy object on the cable of the specified charging equipment (sold separately). Do not use a damaged cable. Doing so might cause an electric shock, short circuit or fire.

Do not let your hands, fingers and other parts of the body touch the desktop holder contact terminals or microUSB connection terminals. Doing so might cause electric shock, injury or a fault.

If you hear thunder, do not touch the power plug. Doing so might cause an electric shock etc. as a result of a lightning strike.

Before cleaning the specified charging equipment (sold separately), unplug its power plug from the outlet. If the plug remains plugged in when you clean the equipment, it might cause an electric shock or short circuit.

Wipe off dust on the power plug. Failure to do so might cause fire, burns or electric shock.

Install and position in-car devices where they do not hinder driving or safety equipment such as airbags. Failure to do so might cause a traffic accident. Install in-car devices following the instructions of their manuals.

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**Exemptions**

The Company is not liable for any damages arising from earthquakes, lightning, storms, floods or other natural disasters, as well as fires, actions by third parties, other accidents, intentional or mistaken misoperation by the customer, or use under other unusual conditions outside the responsibility of the Company.

The Company is not liable for any incidental damages (change/disappearance of described content, loss of business income, disruption of business, etc.) arising from use of or inability to use the product.

The Company is not liable for any damages arising from failure to observe the described content of the "Instruction Manual".

The Company is not liable for any damages arising, for example, from malfunction caused by combination with connected devices or software not related to the Company.

Captured image data or downloaded data may sometimes be altered or lost due to faults, repair or other handling of the product. The Company is not liable for any damage or lost income resulting from recovery of these data.

It is recommended you keep a copy of important data in your PC's hard disk, etc. Whatever the cause of fault or malfunction may be, the Company assumes no responsibility for alteration or loss of saved information.

\* "The Company" as appears in this manual refers to the following companies:  
Sold by: KDDI CORPORATION, OKINAWA CELLULAR TELEPHONE COMPANY  
Manufactured by: Sony Mobile Communications Inc.

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- Every effort has been made in the preparation of "Instruction Manual". Should you notice any unclear points, omissions, etc., feel free to contact us.
- Wrong page order or missing pages will be replaced.

**Safety Precautions (Observe Strictly)**

Before using this product, thoroughly read these safety precautions for proper use. After reading, store the precautions in a safe place.

If charging is not completed after the specified charging time, stop charging. Failure to do so might cause leakage of liquid, overheating, rupture or fire.

Do not leave in places within the reach of small children. Small children might swallow small parts, etc. by mistake and choke on them, or might drop them by mistake and cause accidents or injury.

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**Caution**

Be sure to read the following cautions before use.

Do not store the product in places subject to direct sunlight (e.g. in automobiles), places that get hot, places that get extremely cold, and in humid or dusty places. Doing so might cause overheating, ignition, deformation or a fault.

Do not leave on unstable places such as rocky stands or tilting surfaces especially while the vibration mode set. Dropping the product may cause injury or damage. Also, pay sufficient attention to impact, etc.

Do not cover or wrap the product with bedding, etc. while using or charging the product. Doing so might cause fire, fault or injury.

Do not touch the main unit or the specified AC adapter (sold separately) for a long time while power is being supplied from an external source. Doing so might cause low-temperature burns.

The product may become hot by prolonged use especially in high-temperature environment. Be careful when using the product touching your skin for a long time, as it might cause low-temperature burns.

Do not use power outlets or wiring apparatus beyond its rating. Also, exceeding rating, for example, by connecting multiple devices to a single power strip might cause overheating and fire.

Do not place near corrosive chemicals or in places where corrosive gas is generated. Doing so might cause a fault or loss of internal data.

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Do not light the flash/photo light toward a driver of a car, motorbike or bicycle. If dazzled by the light, the driver might become unable to drive and cause an accident.

Sometimes, very rarely some people demonstrate symptoms such as temporary muscle spasms, loss of consciousness, etc. by watching repeatedly flickering screens. Those with a past history of this should consult with a physician beforehand.

**Caution**

Be sure to read the following cautions before use.

Use of the main unit in an automobile might sometimes affect on-vehicle electronic devices, though this rarely happens. If this happens, stop use since this may impair safe travel.

If you feel any abnormality with your skin, immediately consult a dermatologist. Itching, rashes, eczema, etc. sometimes occurs depending on your physical constitution and condition. The materials of parts used on the product are as follows.

Part	Material	Surface treatment
Exterior case (cover front side)	PC resin (with glass 30%)	UV coating
Exterior case (cover back side)	PC resin (with glass 30%)	UV coating
Exterior case (frame side)	Aluminum alloy	Anodic oxide coating
Exterior case (microSD memory card slot cover)	Aluminum alloy	Anodic oxide coating
Exterior case (au Micro IC Card (LTE) slot cover)	Aluminum alloy	Anodic oxide coating
Exterior case (microUSB connection terminal cover)	Aluminum alloy	Anodic oxide coating
Decorative ring (headset connection terminal)	Aluminum alloy	Anodic oxide coating
Decorative ring (power key)	Aluminum alloy	Anodic oxide coating

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Remove the power plug of the specified AC adapter (sold separately) from the outlet when not using the adapter for an extended period. Failure to do so might cause electric shock, fire or a fault.

Charging equipment is not waterproof. Do not use in places subject to direct splashing with water, pet urine or other liquids. Doing so might result in faults resulting from overheating, fire, electric shock, or short-circuiting of electronic circuits. In the event that the product is splashed with liquid, immediately disconnect the power plug of the specified AC adapter (sold separately).

**Caution**

Be sure to read the following cautions before use.

Do not leave the desktop holder on the floor. Doing so might cause injury or accident if they accidentally step on the holder or fall.

Do not use in humid places such as bath areas, or connect/disconnect the specified charging equipment (sold separately) with wet hands. Doing so might cause electric shock or a fault.

Charge the battery in a stable place especially while the vibration mode set. If placed on an inclined surface or wobbly stand, the product might fall causing injury or damage. Be careful especially when vibration is set. In addition, do not cover or wrap the product with a cloth or bedding. Doing so might cause fire or a fault.

When unplugging the plug of the specified charging equipment (sold separately) from the outlet, hold and pull the power plug. If you pull the cable, the cable might be damaged.

Do not use the desktop holder in a car. Doing so might disturb driving and cause an accident. It is presumed that the desktop holder will be used in the room and stable place.

Pay attention to items becoming stuck to the Desktop Holder. The magnetic connector uses magnets, and so thumbtacks and pins, craft knife blades, staples, and other metal objects sometimes become stuck to the main unit, and cause unexpected injury. Before using the product, be sure to check that there are no foreign objects on the magnetic connector or other parts.

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- These "Safety Precautions" describe instructions that should be observed to prevent damage to property or injury to the customer or others using the product.
- These instructions are divided into the following categories.

**Explanation of indications used in this manual**

	<b>Danger</b>	This symbol indicates the potential and imminent danger of death or serious injury <sup>*1</sup> to a person.
	<b>Warning</b>	This symbol indicates the possibility of death or serious injury <sup>*1</sup> to a person.
	<b>Caution</b>	This symbol indicates the possibility of personal injury <sup>*2</sup> to a person or physical damage <sup>*3</sup> .

<sup>\*1</sup> Serious injury: This refers to loss of sight, injury, burns (high- and low-temperature), electric shock, broken bones, injuries with residual aftereffects from poisoning, etc., and injuries requiring hospital admission for treatment or long-term hospital attendance as an outpatient.

<sup>\*2</sup> Injury: This refers to injuries, burns (high- and low-temperature), electric shock, etc. that do not require hospital admission for treatment or long-term hospital attendance as an outpatient.

<sup>\*3</sup> Physical damage: This refers to extended damage to buildings, furniture, livestock, or pets.

**Explanation of graphic symbols used in this manual**

	Indicates an action that is not allowed.		Indicates that use in a place where the product is likely to get wet or allowing the product to get wet is not allowed.
	Indicates that handling with wet hands is not allowed.		Indicates an action that must be done.
	Indicates that disassembly is not allowed.		Indicates that the power plug must be disconnected from the power outlet.

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Do not use if there is smoke, abnormal odor or noise, excessive overheating, or other abnormalities. If an abnormality occurs, disconnect the specified charging equipment (sold separately) from the power outlet, make sure that the product is not overheating before turning the power off, and contact an au shop or Secure cell phone support center. Also, if you have dropped or damaged the product, do not continue to use it in that state, and contact an au shop or Secure cell phone support center.

When inserting an earphone, etc. into the product, adjust the volume to the proper level. Setting too loud a volume or using the earphone continuously for a long period of time might adversely affect your ears. Also, raising the volume too high might prevent you from hearing sounds around you, which might in turn lead to a traffic accident at a railroad crossing or pedestrian crossing.

When adjusting the volume with an earphone, etc. inserted into the product, raise the volume a little at a time. If you raise the volume too much from the outset, sudden loud noise from the earphone, etc. might adversely affect your ears.

When using an AC adapter or external device, insert/remove the connector straight to/from the terminal. Make sure the orientation of the connector is correct. Failure to do so might cause damage or a fault.

Part	Material	Surface treatment
Decorative ring (camera)	Aluminum alloy	Anodic oxide coating
Power key	Aluminum alloy	Anodic oxide coating
Volume key	PC resin	UV coating
Camera key	PC resin	UV coating
Decorative plate (bottom panel)	PC resin	UV coating
Transparent plate (display)	Glass + PET resin	—
Transparent plate (back side)	Glass + PET resin	—
Transparent plate (camera)	PMMA + PC resin	AR coating

Do not bring the product close to magnetized objects such as cash cards, floppy disks, credit cards, and prepaid cards. Doing so might result in loss of recorded information.

Do not allow liquids, metal objects, burnable items, and other foreign matter to get inside the microUSB connection terminal, headset connection terminal, microSD memory card slot, or au Micro IC Card (LTE) slot. Doing so might cause fire, electric shock or a fault.

Do not swing the product around by holding Sony mobile TV antenna cable 01, the hand strap, etc. Doing so might cause an accident or damage.

Use the product with the covers of the microUSB connection terminal, microSD memory card slot or au Micro IC Card (LTE) slot cover etc. closed. If the covers are open, dirt or water may get inside causing a fault.

If you have a weak heart, be careful when setting the incoming vibration and ringtone volume to prevent adverse effects on your heart.

Pay attention to items becoming stuck to the main unit. The microphone/speaker uses magnets, and so thumbtacks and pins, craft knife blades, staples, and other metal objects sometimes become stuck to the main unit, and cause unexpected injury. Before using the product, be sure to check that there are no foreign objects on the microphone/speaker or other parts.

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- Precautions common to the main unit, internal battery, charging equipment, au Micro IC Card (LTE), peripheral devices

**Danger**

Be sure to read the following hazards before use.

Be sure to use only the specified peripheral devices. Use of other peripheral devices might cause overheating, fire, rupture, fault, or leakage of liquid.

Do not use, store or leave the product in hot places (e.g. by the fire, near a heater, under a kotatsu, in direct sunlight, in car in the hot sun). Doing so might cause ignition, rupture, fault, fire or injury.

Before entering an area where flammable gas is generated such as a gas station, be sure to turn off the product. Do not charge the battery. Failure to do so might cause the gas to catch fire. In addition, when using the payment function of Osafu-Keitai® at a gas station, be sure to turn off the power in advance (If Osafu-Keitai® lock has been set, cancel the lock before turning off the power).

Do not put the product in a cooking apparatus such as microwave oven or a pressure vessel. Doing so might cause ignition, rupture, fault, fire or injury.

Do not throw the product into a fire or heat it. Doing so might cause ignition, rupture or fire.

Do not short-circuit the desktop holder contact terminals, microUSB connection terminals or headset connection terminals. Do not allow conductive foreign objects (metal fragments, pencil leads, etc.) to come into contact with or get inside the desktop holder contact terminals, microUSB connection terminals or headset connection terminals. Doing so might cause fire or a fault.

When using a metal accessory, etc., take sure not to allow the metal part come in contact with the microUSB connection terminals or power outlet. Doing so might cause electric shock, ignition, injury or a fault.

Do not expose the camera lens to direct sunlight for an extended period. Doing so might cause ignition, rupture or fire by the light-collecting mechanism of the lens.

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Main unit

**Danger**

Be sure to read the following hazards before use.

Do not puncture the product with a nail, hit with a hammer or step on the product. Doing so might cause fire or damage.

Do not disassemble, modify or directly solder the product. Doing so might cause spilling of the battery liquid resulting in an accident such as loss of eyesight if it gets into eyes, or cause overheating, fire or rupture.

Be careful not to have the product bitten by your pet. It might cause leakage, overheating, rupture or ignition of the internal battery.

**Warning**

Be sure to read the following warnings before use.

Do not use a cell phone while driving a car or riding a motorbike or bicycle. It might cause a traffic accident. Use of a cell phone while driving a car or motorbike is prohibited by law. Use of a cell phone while riding a bicycle may be punishable by some regulations.

Do not use the product while you are aboard an airplane. Use of electric devices transmitting radio waves in airplane is prohibited by law. Some airline companies, however, allow their passengers to use cell phones. For details, contact the airline company you use. When a cable is connected to the microUSB terminal of the product to charge the battery etc., the power is turned on, even though operation is not available. Therefore, cable connection for charging etc. should not be made in areas where use is prohibited, such as in airplanes and hospitals.

The product sometimes affects high-precision electronic devices. So, turn it off near such devices (Examples of electronic devices that might be affected by the product include cardiac pacemakers, hearing aids, other electronic medical devices, fire alarms, and automatic doors. If you are using an electronic medical device, contact the device manufacturer or retailer for information about the possible affect of radio waves).

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Do not put the product directly on sand at a beach, etc. Sand or other small particles might get inside the earpiece/notification LED microphone/speaker, second microphone etc. causing the volume to drop. If sand gets inside the product's main unit, it might cause overheating or a fault.

When using the product for calling or data communication, be careful not to keep the product in direct contact with your skin for a prolonged period, or not to cover the product with paper, cloth, bedding, etc. The main unit might get hot, causing fire, burns or a fault.

**Li-Ion 00**

**Danger**

Be sure to read the following hazards before use.

If the leaked liquid gets on your skin or clothes, immediately rinse it off with water to avoid injury. If the liquid gets into your eyes, do not rub but wash your eyes with water, and immediately consult a doctor to avoid the risk of losing your eyesight. If the liquid gets on a device, wipe it off without touching it.

The internal battery is a consumable item. If the performance of a battery does not recover (e.g. the usable time after each charge has become extremely short), the battery is at the end of service life, so stop use. Failure to do so might cause overheating, fire, rupture or leakage. Battery is built into the product. For repair, the product must be collected to au shop etc. and charges will be incurred. And you may not use the product during certain period of time. Please be forewarned. Note that the length of service life varies depending on the usage condition, etc.

**Internal battery**

**(The internal battery of this product is a lithium-ion battery)**

The internal battery is not fully charged at the time of purchase. Charge the battery before using the product.

**Danger**

Be sure to read the following hazards before use.

If the leaked liquid gets on your skin or clothes, immediately rinse it off with water to avoid injury. If the liquid gets into your eyes, do not rub but wash your eyes with water, and immediately consult a doctor to avoid the risk of losing your eyesight. If the liquid gets on a device, wipe it off without touching it.

The internal battery is a consumable item. If the performance of a battery does not recover (e.g. the usable time after each charge has become extremely short), the battery is at the end of service life, so stop use. Failure to do so might cause overheating, fire, rupture or leakage. Battery is built into the product. For repair, the product must be collected to au shop etc. and charges will be incurred. And you may not use the product during certain period of time. Please be forewarned. Note that the length of service life varies depending on the usage condition, etc.

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Do not use or leave the au Micro IC Card (LTE) in hot places such as by the fire or a heater. Doing so might cause melting, overheating, fuming, loss of data or a fault.

Do not throw the au Micro IC Card (LTE) into a fire or heat it. Doing so might cause melting, overheating, fuming, loss of data or a fault.

Do not touch the IC (metal) part of the au Micro IC Card (LTE) or short-circuit it. Doing so might cause loss of data or a fault.

Do not drop the au Micro IC Card (LTE) or subject it to strong impact. Doing so may cause a fault.

Do not fold, bend or place a heavy object on the au Micro IC Card (LTE). Doing so may cause a fault.

Do not wet the au Micro IC Card (LTE). Doing so may cause a fault.

Do not scratch the IC (metal) part of the au Micro IC Card (LTE). Doing so might cause a fault.

Do not store the au Micro IC Card (LTE) in dusty places. Doing so might cause a fault.

Do not store the au Micro IC Card (LTE) in places exposed to direct sunlight or hot and humid places. Doing so may cause a fault.

Store the au Micro IC Card (LTE) out of reach of small children. Failure to do so might cause injury or asphyxiation, etc. if they accidentally swallow and choke on it.

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If you feel any abnormality with your skin, immediately consult a dermatologist. Itching, rashes, eczema, etc. sometimes occurs depending on your physical constitution and condition. The materials of parts used on the Desktop Holder are as follows.

Part	Material	Surface treatment
Upper case	ABS resin	—
Lower case	ABS resin	—
Attachment	PC resin	—
Housing	PC resin	—
Magnet connector	Neodymium	Nickel plating
Contact terminal	Brass	Gold plating
Label	PS resin	—
Rubber foot	Polyurethane resin	—

**au Micro IC Card (LTE)**

**Warning**

Be sure to read the following warnings before use.

Do not put the au Micro IC Card (LTE) in a cooking apparatus such as a microwave oven or a pressure vessel. Doing so might cause melting, overheating, fuming, loss of data or a fault.

**Caution**

Be sure to read the following cautions before use.

Be careful not to injure your hand or finger when attaching/removing the au Micro IC Card (LTE).


Use only the devices specified by the Company to insert the au Micro IC Card (LTE) in. Using a device not specified by the Company might cause loss of data or a fault. For the specified devices, contact an au shop or Customer Service Center.

Do not disassemble or modify the au Micro IC Card (LTE). Doing so might cause loss of data or a fault.


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■ Sony Mobile TV antenna cable 01


Warning


Be sure to read the following warnings before use.

 Sony Mobile TV antenna cable 01 is not waterproof. Do not use in places subject to direct splashing with water, pet urine or other liquids. Doing so might result in faults resulting from overheating, fire, electric shock, or short-circuiting of electronic circuits.

Caution

Be sure to read the following cautions before use.

 When the product is used by a child, parents or guardians should teach the child how to use it. Do not allow them to use the equipment without adult supervision. Failure to do so might cause injury.

 If you feel any abnormality with your skin, immediately consult a dermatologist. Itching, rashes, eczema, etc. sometimes occurs depending on your physical constitution and condition. The materials of parts used on Sony Mobile TV antenna cable 01 are as follows.

Part	Material	Surface treatment
Headset connection terminal (top face)	PP resin	—
Headset connection terminal (ring)	PC resin	—
Headset connection terminal (body)	Elastomer resin	—
Cable	Elastomer resin	—
Connecting plug (top face)	PP resin	—
Connecting plug (ring)	PC resin	—
Connecting plug (body)	Elastomer resin	—
Connecting plug (metal parts)	Brass	Gold plating

- Note that contents data (both charged or free content) saved on the product cannot be returned to the customer when the product is replaced for repair of a fault, for example.
- This product uses liquid crystal for its display. The display response speed may become slow when the ambient temperature is low, which is due to the property of liquid crystal and not a malfunction. The display response speed will return to normal at room temperature.
- Although the display used on the product is made using high-precision technology, some pixels (dots) might be lit or out at all times. This is not a malfunction.
- Take care not to inconvenience people around you when you use the product in a public place.
- You are recommended to store copies of individual data such as photos you took, videos and music in a PC by sending each file as mail attachment, etc. Note, however, that you may not be able to make copies of some copyrighted data even by the above-mentioned means.
- Take care not to place magnetized items such as magnetic cards, speakers and TV sets near the product, as it might cause malfunction. Putting strong magnetism close to the product might cause false operation.
- When you put the product in your pocket or bag, take care so that the display does not come in contact with metal objects or other hard objects, as it might cause scratching or damage. Also, be careful not to scratch or damage the display by using a strap whose metal or other hard part comes in contact with the display.
- When suddenly brought into a warm place from a cold place, or when in a humid location, or when used where temperature suddenly changes (e.g. near the air discharge port of an air conditioner), water droplets (i.e. condensation) sometimes are formed inside the product. Note that when used under conditions such as this, humidity might cause corrosion or a fault.
- When wiping the display, wipe with a soft, dry cloth. Use of a glass cleaner or other similar liquid might cause a fault.
- When connecting the external device to the microUSB connection terminal or headset connection terminal, insert/remove the external device connector and plug straight to/from the microUSB connection terminal or headset connection terminal. Failure to do so might cause damage or a fault.

■ Charging equipment

- When not using the specified charging equipment (sold separately), remove the plug from the power outlet.
- Do not wrap the cord of the specified charging equipment (sold separately) around the adapter itself. Failure to do so might cause electric shock, overheating or fire.
- Do not forcibly bend the charging equipment's plug or the connection between the connector and cable. Doing so might cause electric shock, overheating or fire.

■ au Micro IC Card (LTE)

- The au Micro IC Card (LTE) is lent to you by au. In case of loss or damage, the card will be replaced at your expense. When malfunction is suspected, or in case of theft or loss, contact an au shop or PiPi.
- Do not forcibly remove or insert the au Micro IC Card (LTE). Be careful not to exert excessive force when inserting the card into your au cell phone.
- You are responsible for any damage caused by inserting your au Micro IC Card (LTE) into some other IC card reader/writer, etc.
- Keep the IC (metal) part of your au Micro IC Card (LTE) clean. Clean the product with a soft dry cloth (such as the type used for eyeglasses).
- Do not put stickers, etc. on the au Micro IC Card (LTE).
- Do not insert a card other than au Micro IC Card (LTE) into the product. You cannot use the product with a card other than au Micro IC Card (LTE).
- Do not insert an au Nano IC Card (LTE) with a conversion adapter. Doing so may cause a fault.

■ Camera

- When using the camera, follow common rules of etiquette regarding camera use.
- Image data might be altered or lost due to malfunction, repair or mishandling of the product. The Company takes no responsibility for recovery of altered or lost data, damages resulting from altered or lost data, and lost profits.

■ Notes on waterproof and dustproof properties

This product has a waterproof property equivalent to IPX5\*<sup>1</sup> and IPX8\*<sup>2</sup>, as well as a dustproof property equivalent to IP5X\*<sup>3</sup> on the condition that the microUSB connection terminal cover, microSD memory card slot cover and au Micro IC Card (LTE) slot cover are securely attached (based on in-house testing). Specifically, you can make calls holding the product with wet hands in the rain (less than 20 mm per hour) without umbrella, as well as use the product in a place with water such as a bathroom or kitchen. Before using the product, thoroughly read "Important items to remember before use" and "Tips for comfortable use" to ensure correct use. Failure to follow the contents described in these sections may cause intrusion of water, sand or other foreign material, resulting in overheating, ignition, electric shock, injury or a fault.

\*1 IPX5 equivalent means that the product will maintain its operability as a phone even if it is sprayed with water from a 6.3 mm diameter nozzle at a distance of about 3 meters for more than 3 minutes at a rate of about 12.5 liters per minute from any direction.

\*2 IPX8 equivalent means that the product will maintain its operability as a phone with no water getting inside the main unit even if it is gently submerged in a tank of still tap water at room temperature to a depth of 1.5 meter for about 30 minutes.

\*3 IP5X equivalent means that the product will securely maintain its operability as a phone even after it has been placed in an apparatus with grit and dust of diameters of 75 μm or less and shaken for 8 hours.

Since operation of the product on each usage scene was confirmed based on the above assumption, proper operation of the product in every possible condition during actual use is not guaranteed. Malfunctions determined to be caused by mishandling by the customer are not covered by the warranty.

■ Handling precautions

These precautions are provided to ensure that performance can be fully demonstrated. Thoroughly read these precautions to ensure correct use.

■ Precautions common to the main unit, internal battery, charging equipment, au Micro IC Card (LTE), peripheral devices

- Do not apply excessive force to the product during use. Be sure not to put the product into a tightly packed bag or place a heavy object on the product in a bag. Sitting on the product in your pocket might damage the display or internal circuit board resulting in a malfunction. Keeping an external device connected to the microUSB connection terminal or headset connection terminal might damage the connector resulting in a malfunction. Such damage and malfunction are not covered by the warranty, even if there is no external damage.
- To ensure waterproof property (equivalent to IPX5 and IPX8) of this product, use the product with the microUSB connection terminal cover, microSD memory card slot cover and au Micro IC Card (LTE) slot cover tightly closed. Note that the waterproof property is not guaranteed in every usage condition. Do not allow water to get inside the product or splash water on charging equipment or optional accessories. Do not attach/remove the microSD memory card or au Micro IC Card (LTE), or open/close the microUSB connection terminal cover in the rain or with waterdrops on the surface of the product. Doing so might cause water intrusion resulting in internal corrosion. Malfunctions determined to be caused by water are not covered by the warranty.
- Do not use the product in extremely hot, cold or humid places. (Use within an ambient temperature range of 5°C to 35°C and humidity range of 35% to 85%)
  - Charging equipment
  - Peripheral devices

- Note that applying excessive force with the external device connected to the microUSB connection terminal or headset connection terminal might cause damage.
- Do not discard the product together with regular trash. Please cooperate in the collection of the product when it is no longer needed to protect the environment and effectively use resources. Old products are collected at au shops and other places.
- Insert only a microSD memory card into the microSD memory card slot on the product.
- Do not exert excessive force when attaching/removing a microSD memory card. Doing so might injure your hands or fingers.
- While reading/writing data, do not subject the product to vibration or impact, pull out microSD memory card, force-quit, or turn off the power. Doing so might cause loss of data or a fault.
- When hearing the other party's voice, make sure that the earpiece is placed at the center of your ear. If the earpiece (audio output port) is closed by the ear lobe, it may be hard to hear the voice.
- Even if you cover the microphone/speaker to make your voice inaudible to the other party, the other party can hear your voice.
- When using handsfree call, take care to keep the speaker at a safe distance from your ears, as the speaker volume may be too loud.
- Do not cover the proximity sensor with your finger or put a sticker on it. Doing so might hinder the proximity sensor from detecting the ambient brightness and functioning correctly.
- Do not put a sticker, etc. on the proximity sensor. Doing so may cause the sensor a malfunction and make the display always turned off while receiving a call or during a call.
- Do not apply excessive force to the product during use. Note that applying excessive force to the product such as swinging or carving the product body cause malfunction or damage.
- Do not forcefully pull microUSB connection terminal cover, microSD memory card slot cover or au Micro IC Card (LTE) slot cover. It might cause damage.

- When photographing important occasions (such as a wedding), take a trial shot and check the shot image to make sure it is correctly shot and the audible sound is recorded.
- Do not use the camera for recording commercially available books or information of which photographing is not allowed.
- Do not leave the camera lens exposed to direct sunlight. Imaging elements might be discolored or burnt.

■ Music, videos, TV and Radio

- Do not listen to music or watch videos,TV, etc. while driving a car or motorbike, or riding a bicycle. Use of cell phones while driving a car or motorbike is prohibited by law. (Use of cell phones while riding a bicycle may also be punishable by law.) In addition, stay alert to the traffic around you even when walking. Surrounding sounds may not be heard clearly, and gazing at the screen might distract your attention causing a traffic accident. Be especially careful at railroad crossings, station platform and pedestrian crossings.
- Take care not to listen at ear-splitting volume for a long time, as it might affect hearing.
- Be careful of sound leakage from earphones in trains or other places with many people around you.

■ Copyrights and rights of portrait

- You are not allowed to copy, distribute, publish, modify or edit the data you shot, recorded or downloaded using this product without consent of the copyright holder, except for personal use, under the copyright law. In addition, do not use or modify portraits or names of other individuals without their consent, as it might infringe on rights of portrait. Note that shooting and recording may be restricted at some live performances, shows and exhibitions even for personal use.
- Be careful about the copyright and portrait right when posting photos you shot, etc. on Internet homepages.

■ Important items to remember before use

- ① Make sure that the microUSB connection terminal cover, microSD memory card slot cover and au Micro IC Card (LTE) slot cover are firmly closed.
  - Waterproofness/dustproofness is only effective when the covers are securely closed.
  - Just a small particle (a hair, etc.) between contact surfaces can cause water leak or dust penetration.
  - Do not open/close the microUSB connection terminal cover, microSD memory card slot cover or au Micro IC Card (LTE) slot cover if the main unit or your hands are wet.
  - Do not connect Sony Mobile TV antenna cable 01 or earphones to the product when it is wet by water. Doing so may cause a fault.
  - When closing each cover, after slowing the cover hinge, press the entire cover with the flat part of your finger. Then, trace the cover to ensure that the cover is not partially open.
- ② Do not immerse the product in water with soap, detergent or bath salts in it.
- ③ Do not immerse the product in seawater, a swimming pool or hot spring.
- ④ Do not immerse the product in any liquid (alcohol, juices, etc.) other than fresh water and tap water of room-temperature (5-35°C).
- ⑤ Do not place the product directly on sand at a beach, etc. Grains of sand or other small particles might get into earpiece/notification LED, microphone/speaker or second microphone causing the volume to drop. And if sand gets inside the product's main unit, it might cause overheating or a fault.
- ⑥ Do not use the product underwater.
- ⑦ Do not leave the product in a humid place such as a bathroom or kitchen for an extended period of time.



Soap/detergent/ bath salts



Seawater



Hot spring



Sand/dirt

- Do not use the product in extremely hot, cold or humid places. (Use within an ambient temperature range of 5°C to 35°C and humidity range of 35% to 85%. Temporary use within an ambient temperature range of 36°C to 40°C and humidity range of 86% to 90% is allowed)
  - Xperia™ Z1 main unit
  - au Micro IC Card (LTE) (attached to Xperia™ Z1 main unit)
- Do not use in places subject to lots of dust or vibration. Doing so might cause a fault.
- Clean the desktop holder contact terminal, microUSB connection terminal and headset connection terminal with dry cotton swabs, etc. every now and then. Soiled terminals might cause poor connection. Do not exert a strong force to clean microUSB connection terminal or headset connection terminal to prevent deformation.
- Clean the product with a soft dry cloth (such as the type used for eyeglasses). Forceful rubbing with a dry cloth may scratch the display. The display may be stained if splash or smear is left attached to the surface. Wiping the product using alcohol, thinner, benzine, detergent, etc. might erase the printing on the outer casing or cause discoloration.
- Use as far away as possible from land-line phones, TVs and radios. Use nearby might affect them.
- This product may become warm while talking, watching TV, charging or during other operations, depending on the situation, but this is not abnormal.
- When the product is used by a child, parents or guardians should thoroughly read "Instruction Manual" and teach the child how to use it.

■ Main unit

- If the product becomes high temperature, the display may become dim. This is normal.
- Do not forcefully press, tap or intentionally subject the display to strong impact. Doing so might cause scratching or damage.

- While watching TV, the product becomes hot. Be careful when touching the product with your hands or face.
- Note that when the shooting screen is displayed continuously for a long time for still image shooting, video shooting, or TV watching, parts of the main unit may get warm, and that contact by your skin with these parts for a long time might cause low-temperature burns.
- Do not use the product while driving a car, etc. Using functions such as mail and camera other than talking on the phone with a handsfree kit might cause a traffic accident and is prohibited by law.

■ Display (Touch Panel)

- Use your finger to operate the touch panel. Do not use ballpoint pens, pencils or other sharp-pointed objects. Using such objects does not only hinder correct operation of the touch panel, but also might cause scratching or damage to the display.
- Do not put stickers or sheets (e.g. commercially available protective films, peep prevention sheets) on the display. Doing so might hinder correct operation of the touch panel.
- Do not operate the touch panel with fingernails. Doing so might result in split nails or jammed fingers.
- If the display surface is dirty or wet with sweat or water, it may not function correctly. In such case, wipe the display surface with a dry, soft cloth.
- Note that pressing the touch panel forcefully may cause malfunction or damage.
- When carrying the product in your pocket or bag, take care not to put the touch panel close to metals or other conductive materials, as it might cause false operation of the touch panel.

- This product is licensed based on MPEG-4 and AVC patent portfolio license with MPEG LA, LLC. The use is allowed for personal and nonprofit use only in the cases below.
  - Recording videos that conform to MPEG-4 and AVC Visual Standard (hereinafter referred to as MPEG-4 and AVC Video)
  - Playing MPEG-4 and AVC Videos recorded personally by consumers not engaged in profit activities
  - Playing MPEG-4 and AVC Video supplied from the provider licensed from MPEG-LA, LLC. For further utilizing, please contact MPEG LA, LLC in U.S. <http://www.mpegla.com>

■ Backup content on the product

- Please back up important content recorded or downloaded to the product to an outside source. Content recorded to memory on the product sometimes disappears or is altered by unexpected factors, such as static electricity or a fault, repair, mishandling, etc.
  - \* How to make backups: Store important data such as contacts data, music, shot photos and videos on microSD memory cards. You can also send files as mail attachment or transfer to your PC. Note, however, that there are some data that cannot be copied by using these means.

■ Available Security Codes

The product has various security codes that you can use. The available security codes are as follows. Do not forget the various security codes that are set as they are necessary for various operations and contracts.

Example of usage	① To do remote operation of voice mail and call forwarding services from a landline phone ② To use Customer Service Center and to do various inquiries, applications, and modifications on the au homepage
Initial value	A four digit number chosen by the customer and noted on the application form

■ Tips for comfortable use

- Once the product gets wet, water may remain in grooves of the main unit. Shake the product well to drain water. Especially make sure to drain water remaining in headset connection terminal, power key, volume key and camera key parts.
- Even after water is drained, the inner parts might be still wet. Although you can use the product, do not place it near things that must not get wet. Take care not to wet your clothes, bag or contents of the bag.
- Drain water if it becomes temporarily hard to hear the sound due to water remaining in earpiece/notification LED, microphone/speaker or second microphone.
- Notes on various usage scenes
- In the rain:** You can make calls holding the product with wet hands in the rain without umbrella.
  - The rain in this case means a moderately-heavy rain (less than 20 mm per hour).
- Water drops on the display might cause errors in the touch panel operation.
- Never open/close the microUSB connection terminal cover, microSD memory card slot cover or au Micro IC Card (LTE) slot cover if the product is exposed to rain, or your hands are wet.
- In the shower:** You can make calls holding the product with wet hands while taking a shower.
  - Avoid spraying the product with high-pressure water, as the product is not designed to withstand high water pressure.
- Washing:** You can wash the product under a mild flow (less than 6 liters per minute) of tap water at room temperature (5°C to 35°C) at a distance of about 10 cm from the faucet or showerhead.
- Do not spray the product with high-pressure water or submerge it in water for extended periods of time, as the product is not designed to withstand high water pressure.
- Make sure to hold the microUSB connection terminal cover, microSD memory card slot cover and au Micro IC Card (LTE) slot cover so that they do not open, wash the product with your hands. Do not use a brush or sponge.
- Do not wash the product in a washing machine or ultrasound bath.
- Do not splash the product with or immerse it in soap water, detergent water, etc. other than tap water.

- Do not forcefully press your fingernails or hard objects against keys or display surface. Doing so might cause scratching or damage. The touch panel is designed to be lightly touched by fingers. Do not apply strong pressure with your fingers or sharp-pointed objects (such as fingernails, ballpoint pens and pins) on the touch panel. Touching the panel may not work in the following cases. Note that it may cause malfunction.
  - Operation with gloved hands
  - Operation with fingernails
  - Operation with foreign object on the screen
  - Operation with protective sheet or seal on the screen
  - Operation with a water drops or dew condensation attached on the touch panel
  - Operation with wet or sweaty fingers
  - Operation under water

- Do not remove the stickers printed with the IMEI on the nameplate.

- Never use modified au cell phones. Use of a modified device violates the Radio Law. This product has acquired the certification of conformity with technical regulations for the specified radio station based on the Radio Law, and the "Technical Conformity Mark" (㊞) is checkable on au phone as a certificate. Checking procedure: From the Home screen, [㊞]→[Settings]→[About phone]→[Legal information]→[Certificates] If the screws of the product are removed and modifications are made to the internal components, the certification of conformity with technical regulations will become invalid. Never use the product without the valid certification. Doing so violates the Radio Law.

- To prevent unlawful modification, the product has been designed so that it cannot be easily disassembled. Modifying the product is prohibited by the Radio Law.

- Contents saved in the product, such as contacts and Album data might be altered or lost by an accident, fault, repair or mishandling. Be sure to keep a copy of important contents. Note that the Company assume no responsibility for any damages or lost profits resulting from altered or lost contents.

■ Internal battery

- Use in very hot or cold environments, for example, when left in an automobile with the windows closed in summer, will cause the battery capacity to drop and shorten the available battery usage time. This will also shorten the internal battery's service life. Try to use the product as far as possible at room temperature.
- The internal battery gradually discharges after charging even if the product is not used. The internal battery may discharge completely after long time no use. Charge before using.
- Do not store the product under the following conditions. They might cause degradation of performance or service life of the internal battery.
  - Fully charged (soon after completion of charging)
  - Empty (the product does not turn on)
  - In high-temperature and humidity
- Charge the battery before using the product for the first time after purchase, or if you have not used the product for a long time.
- The internal battery is a consumable item. If the performance of a battery does not recover after charge, the battery is at the end of service life, so stop using it. The battery is built into the product. For repair, the product must be collected to au shop etc. and charges will be incurred. And you may not use the product during certain period of time. Please be forewarned. Note that the length of service life varies depending on the usage condition, etc.
- Do not discard batteries with regular trash. Please cooperate in the collection of batteries packs when it is no longer needed to protect the environment and effectively use resources. au shops and other retailers collect used batteries.
- Internal batteries sometimes swell up as they approach the end of their service life. This is due to the properties of lithium-ion batteries, and is not a problem in terms of safety.

- Setting screen lock

Example of usage	To set and release the screen lock
Initial value	Swipe

- PIN code

Example of usage	To prevent unauthorized use of the au Micro IC Card (LTE) by third parties
Initial value	1234

- Lock No. (NFC/Osaifu-Keitai lock)

Example of usage	To set the "NFC/Osaifu-Keitai lock setting"
Initial value	1234

■ PIN code

- To prevent unauthorized use of the au Micro IC Card (LTE) by a third party, you can set the product to require PIN code entry each time the power is turned on. If PIN code is incorrectly entered three times consecutively, the PIN code will be locked. You can unlock the PIN code using PUK code.
- Entering PIN code is not required by default state. In "Set up SIM card lock", however, you can change the setting requiring to enter PIN code. Note that setting up SIM card lock requires entry of PIN code.
  - PIN code is set to "1234" by default state. In "Change SIM PIN", however, you can change the PIN code to any four- to eight-digit number as necessary.
  - PIN code is not reset by initializing the product.

■ PUK code

- In case PIN code is locked, you can unlock it by entering PUK code.
- PUK code is an eight-digit number given at the time of purchase, and is printed on the back side of the plastic card on which your au Micro IC Card (LTE) is attached.
  - After entering PUK code, you need to set a new PIN code in "Change SIM PIN".
  - If PUK code is incorrectly entered ten times consecutively, contact an au shop, PiPi or Customer Service Center.

**In the bath:** You can use the product in a bathroom. Although you can make calls with wet hands, do not immerse the product into a bathtub. The product is not resistant to high temperatures.

- Do not use the product in a bathroom for an extended period of time. The product is not moistureproof.
- Do not immerse the product in hot spring water, soap water, detergent water, or water with bath salts in it. Also, do not use the product underwater. Doing so may cause a fault.
- Extreme changes in temperature cause condensation. Wait until the main unit reaches room temperature before you bring the product from a cold place into a warm bathroom.
- If condensation occurs inside the display, leave the product at room temperature for a while until condensation is cleared.
- Do not splash the product with hot water. The product is not resistant to high temperatures.
- Do not bring the desktop holder into a bathroom.
- Use within an ambient temperature range of 5°C to 40°C (temporary use at 36°C to 40°C in bathroom etc. allowed) and humidity range of 35% to 90% (temporary use at 86% to 90% in bathroom etc. allowed).
- In the kitchen:** You can use the product in the kitchen and other places where water is used.
  - Do not splash the product with or immerse it in soap water, detergent water, seasonings, juices, etc. other than tap water.
  - Do not immerse the product in or splash it with boiling water. The product is not resistant to high temperatures.
  - Do not place the product where it gets extremely hot or cold such as near a stove or in a refrigerator.
- On the poolside**
  - Do not immerse the product in or splash it with pool water.
  - Do not use the product underwater. Doing so may cause a fault.
  - When the product gets pool water, wash the product under a mild flow (less than 6 liters per minute) of tap water at room temperature (5°C to 35°C).
  - When washing the product, make sure to hold the microUSB connection terminal cover, microSD memory card slot cover and au Micro IC Card (LTE) slot cover so that they do not open. Wash the product with your hands. Do not use a brush or sponge.



- **Precautions**
- **microUSB connection terminal cover, microSD memory card slot cover and au Micro IC Card (LTE) slot cover**  
Make sure that the microUSB connection terminal cover, microSD memory card slot cover and au Micro IC Card (LTE) slot cover are firmly closed. Just a small particle (a hair, etc.) on the seals can cause water leak or dust penetration.  
Do not open/close the microUSB connection terminal cover, microSD memory card slot cover and au Micro IC Card (LTE) slot cover with gloved hands. Just a small particle (a hair, etc.) on the seals can cause water leak or dust penetration. Wipe off any minuscule droplets of water or dirt with a clean dry cloth before closing the covers.  
If the microUSB connection terminal cover, microSD memory card slot cover or au Micro IC Card (LTE) slot cover is deteriorated or damaged, the waterproof/dustproof property becomes ineffective. In such case, contact an au shop near you.
- **If any liquid other than plain water gets on the product**  
If any liquid other than plain water (e.g. seawater, detergent, alcohol, juices) gets on the product, immediately rinse it with plain water. You can wash the product under a mild flow (less than 6 liters per minute) of tap water at room temperature (5℃ to 35℃) at a distance of about 10 cm from the faucet or showerhead. If the product gets dirty, wash it with your hands holding the microUSB connection terminal cover, microSD memory card slot cover and au Micro IC Card (LTE) slot cover so that they do not open. Do not use a brush or sponge.
- **After the product gets wet**  
After the product gets wet, drain water, and wipe the main unit with a clean dry cloth. In cold climates, water on the main unit may turn to frost. Using the product with frost may cause a fault. Do not leave the product without wiping off water (No special measures against condensation have been implemented in this product).  
Do not leave the product without wiping off water. Water may get in the head connection terminal, power key, volume key or camera key parts. If that happens, remove the water by shaking the product (Check your surroundings and be careful not to drop the product). Wipe off the remaining water quickly with a clean dry cloth. Note that your clothes or bag may get wet by water that is not removed or collects in the groove.  
Also, do not leave water droplets in earpiece/notification LED, microphone/speaker or second microphone. That may interfere with talking.

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- Subjecting this product to magnetic or electrical noise might increase noise and prevent it from performing communications. (This product is particularly susceptible to noise when it used near a microwave oven.)
- Using this product near a TV, radio or similar appliance might cause reception interference and disrupt TV images.
- Searching might not be successful if there are multiple wireless LAN (Wi-Fi®) access points near to the product or the same channel is being used.
- The wireless LAN (Wi-Fi®) function cannot be used in airplane. Be sure to turn off the power even in a wireless LAN (Wi-Fi®) compliant airplane. Some airline companies, however, allow their passengers to use cell phones. For details, contact the airline company you use.
- The communication speed and connectable range vary depending on the distance between communication devices, obstacles and the Bluetooth®/wireless LAN (Wi-Fi®) devices used.

## 2.4 GHz frequency band precautions

The frequencies used by the Bluetooth® and/or wireless LAN (Wi-Fi®) function of this product are in the 2.4 GHz band. In this frequency band, other similar wireless stations, in-plant wireless stations for mobile unit identification that require a license for use, such as factory production lines, specific small power wireless stations that do not require licenses, amateur wireless stations (collectively called "other wireless stations" from here on) are operated in addition to home electrical appliances such as microwave ovens, devices for industrial, scientific and medical devices.

1. Before using this product, make sure that "other wireless stations" are not in operation nearby.
  2. In the event that instances of radio wave interference have occurred between this product and "other wireless stations", immediately either relocate this product or stop operation of the device (stop emission of radio waves).
  3. If you are unclear on any points or are troubled by anything, contact an au shop or Customer Service Center.
- Connections between this product and all other Bluetooth® and wireless LAN (Wi-Fi®) devices have not been confirmed. Therefore, connections with all Bluetooth® and wireless LAN (Wi-Fi®) devices are not guaranteed.
  - This product supports security features for wireless communications that are compliant with the Bluetooth® and wireless LAN (Wi-Fi®) standard specifications, but the security may not be sufficient depending on the usage

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The World Health Organization has stated that present scientific information does not indicate that use of mobile devices has any harmful effects on the human body. They recommend that if you are still worried about your exposure then you can limit your talk time or use a handsfree kit to keep the mobile phone away from your head and body. If you would like to know more detailed information, please refer to the WHO website.  
([http://www.who.int/docstore/peh-erml/publications/facts\\_press/fact\\_english.htm](http://www.who.int/docstore/peh-erml/publications/facts_press/fact_english.htm))

Please refer to the websites listed below if you would like to know more detailed information regarding SAR.

- Ministry of Internal Affairs and Communications website:  
<http://www.tele.soumu.go.jp/e/sys/e/e/index.htm>
- Association of Radio Industries and Businesses website:  
<http://www.arib-erf.org/index02.html> (in Japanese only)
- au homepage:  
<http://www.au.kddi.com/>
- Sony Mobile Communications Inc. website:  
<http://www.sonymobile.co.jp/support/> (in Japanese only)

- \*1 Technical regulations are defined by the Ministerial Ordinance Related to Radio Law (Article 14-2 of Radio Equipment Regulations).
- \*2 Regarding the method of measuring SAR when using mobile phones in positions other than against the ear, the international standard IEC62209-2 was set in March 2010. On the other hand, Japanese technical regulation is currently under deliberation by the Committee for Radio Wave Utilization Environment set up in the Information and Communication Technology Group of the Advisory Committee on Information and Communications. (As of October 2011)

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In the event Software accompanying or provided in conjunction with your device is provided with additional terms and conditions, such provisions shall also govern your possession and usage of the Software.

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- **Shock**  
The rubber seals on the inner edges of the microUSB connection terminal cover, microSD memory card slot cover or au Micro IC Card (LTE) slot cover are important to maintain waterproof/dustproof property. Do not damage or remove the rubber seals.  
When closing the microUSB connection terminal cover, microSD memory card slot cover or au Micro IC Card (LTE) slot cover, take care not to get the rubber seals caught. Forcibly closing the cover with the rubber seals caught may damage them resulting in loss of waterproof/dustproof property. Just a small particle (a hair, etc.) on the seals can cause water leak or dust penetration.  
If any liquid other than plain water (e.g. alcohol) gets on the rubber seals, it may cause deterioration in durability.  
Do not insert sharp objects into grooves around the microUSB connection terminal cover, microSD memory card slot cover or au Micro IC Card (LTE) slot cover. Doing so might damage or deform the product or damage the rubber seals, causing water leak or dust penetration.  
It is recommended to replace the parts for maintaining waterproof/dustproof property once every two years regardless of whether any abnormality is present. For information on part replacement, contact an au shop near you.
- **Charging**  
Never charge the battery if the product is wet. The supplied and optional accessories are not waterproof/dustproof.
- **Waterproof property**  
Do not use the product in places where it may be sprayed with high-pressure water (e.g. near a faucet or showerhead) or submerge it in water for extended periods of time, as the product is not designed to withstand high water pressure. Also, do not expose the product to a water flow stronger than the specified flow rate (i.e. 6 liters per minute from a faucet or showerhead, at which you might even feel pain in the skin). Doing so might cause a fault, even though the product has a waterproof property equivalent to IPX5. Do not wash the product in a washing machine or ultrasound bath.  
The product does not float on water.
- **Heat resistance**  
Do not use the product in places where boiling water may splash on it, in saunas or near hot air (e.g. hairdryer). The product is not resistant to high temperatures.

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environment and configuration. Be careful when making data communication using Bluetooth® or wireless LAN (Wi-Fi®) function.

- Wireless LAN (Wi-Fi®) has the advantage that it can be freely connected anywhere within the radio wave range, as it uses radio waves for exchanging information. At the same time, there is a risk that a malicious third party may obtain unauthorized access if security settings have not been configured. You are recommended to configure security settings before using wireless LAN (Wi-Fi®) at your decision and responsibility.
  - The Company assumes no responsibility for leakage of data or information that may occur during Bluetooth®/wireless LAN (Wi-Fi®) communication.
  - Since Bluetooth® and wireless LAN (Wi-Fi®) functions use the same frequency band, using the both functions at the same may cause radio wave interference resulting in decreased communication speed or disconnection from the network. If connection fails, stop using either of the Bluetooth® and wireless LAN (Wi-Fi®) functions.
- Bluetooth® and wireless LAN (Wi-Fi®) functions of this product use frequencies in the 2.4 GHz band.

### Bluetooth® function: 2.4FH1/XX8

This product uses the 2.4 GHz band. FH1 uses FH-SS as the modulation scheme. The interference distance is about 10 m or less. XX8 uses another modulation scheme. The interference distance is about 80 m or less.

### Wireless LAN (Wi-Fi®) function: 2.4DS/OF4

This product uses the 2.4 GHz band. DS-SS and OFDM are used as the modulation schemes. The interference distance is about 40 m or less.



- This means that all bandwidths of 2.4 GHz band can be used, and that bands of mobile unit identification devices can be avoided.
- Available channels differ depending on the country.
- For use in airplane, check with the airline company in advance.

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## Intellectual property rights

### Trademarks

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- "Bluetooth®" is a registered trademark owned by the Bluetooth SIG, Inc., and Sony Mobile Communications is licensed to use this trademark.
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## Foreign Exchange and Foreign Trade Act

The products and accessories may be subject to the application of the Foreign Exchange and Foreign Trade Act and other related laws and regulations in Japan.

In addition, the Export Administration Regulations (EAR) of the United States may be applicable.

In cases of exporting or reexporting the products and accessories, customers are requested to follow the necessary procedures at their own responsibility and cost.

Please contact the Ministry of Economy, Trade and Industry of Japan or the Department of Commerce of the United States for details about procedures.

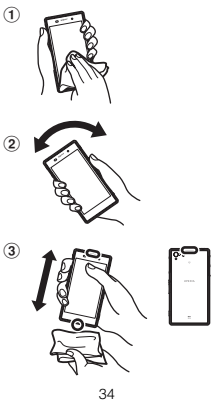
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- **Shock**  
This product is not resistant to shock. Do not drop the product or subject it to shock. Also, do not jab the earpiece/notification LED, microphone/speaker, second microphone, head connection terminal or strap hole etc. with a cotton swab or any sharp object. Doing so might damage or deform the main unit causing water leak or dust penetration.

### Draining water after wetting the product

As some parts of this product are not watertight, if you use the product after it gets wet, water remaining in those parts might wet your clothes or bag, or the sound might become hard to hear. Follow the steps below to drain water.

- ① Wipe off water on the product with dry cloth, etc.
- ② Hold the product firmly and shake it approximately 20 times as shown.
  - \* When shaking the product, check the safety around you and hold it firmly enough not to drop it.
- ③ If water flows out from inside of the product, wipe it off with a dry cloth etc.
  - \* Water left on earpiece/notification LED, microphone/speaker or second microphone is not easily wiped off. Face the product downward and push it on a cloth to wipe off the water.



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## 5 GHz frequency band precautions

Wireless LAN (Wi-Fi®) function of this product uses 5 GHz band. Using 5.2 GHz band and 5.3 GHz band outdoors is prohibited by the Radio Law. The channels used on the product are as follows.

- W52 (5.2 GHz band/36, 40, 44, 48 ch)
- W53 (5.3 GHz band/52, 56, 60, 64 ch)
- W56 (5.6 GHz band/100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140 ch)

IEEE802.11b/g/n
IEEE802.11a/n/ac
W52 W53 W56



## Notes on packet communication charge

- Since constant Internet connection is possible with this product, packet communication may be performed automatically by some applications, resulting in high packet communication charges. Therefore, subscription to a packet communication charge discount service or flat late plan is recommended.
- To browse homepages, download applications, communicate using applications, send/receive e-mails and configure various settings, connection to the Internet is required, to which packet communication charge applies.
- \* Packet communication charge does not apply to wireless LAN (Wi-Fi®).

## Notes on applications

- Be sure to check the security of the application, then install it at your own risk. Some applications might cause virus infection, damage various data, and send out your location information, usage history or personal information stored in your cell phone via the Internet.
- The Company assumes no responsibility for any failures that might be caused by applications you have installed. Repair costs in this case may be charged even during the warranty period.
- The Company assumes no responsibility for any disadvantage brought to you or any third party by applications you have installed.
- Insertion of a microSD memory card is necessary to use some applications.
- Some applications prohibit the product from entering sleep mode while they are active, or rapidly drain the battery while running in the background.

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- ④ Place a dry towel or cloth under the product and leave them for a couple of hours at room-temperature to dry.
  - \* If the product is not dried enough, you cannot hear the sound easily. Leave the product enough time to dry before use.

### Precautions on charging

The supplied and optional accessories are not waterproof/dustproof. Check the following before and after charging.

- Never charge the battery if the main unit is wet. Doing so might cause electric shock or short circuit resulting in a fire or fault.
- Check that the main unit is not wet. If you are charging the battery just after the product gets wet, drain water well and wipe remaining water off with a clean dry cloth before placing it in the desktop holder or opening the microUSB connection terminal cover.
- If you charge the battery with the microUSB connection terminal cover open, be sure to tightly close the cover when charging is finished. We recommend using the desktop holder to charge the battery to prevent water leak or dust penetration from entering from the microUSB connection terminal.
- Do not touch the specified charging equipment or desktop holder with wet hands. Doing so might cause electric shock.
- Do not splash water over the specified charging equipment and desktop holder when using them. Do not use them near water such as in a bathroom, shower room, kitchen or washroom. Doing so might cause fire, electric shock or a fault. Do not bring them into a bathroom, etc. even when you are not charging with them. Doing so might cause fire or electric shock.

## Notes on using Bluetooth®/wireless LAN (Wi-Fi®) functions

- The Bluetooth® and wireless LAN (Wi-Fi®) functions of this product conform to domestic, FCC standards and EC Directive, and has been certified.
- The 2.4 GHz band used by wireless LAN (Wi-Fi®) and Bluetooth® devices is shared by various other devices. For this reason, the communication speed and connectable range may be decreased, or disconnection may occur, due to interference by other devices.
- Do not use this product in places where electromagnetic waves are generated or near electric products, AV and OA equipment, or other magnetized devices.

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○ Operation procedures and screen appearances of the applications preinstalled in this product and those installed by you are subject to change without notice as a result of version upgrade. In addition, operation procedures described in "Instruction Manual" may differ from the actual procedures.

## Specific Absorption Rate (SAR) of cell phones

This model SOL23 mobile phone complies with Japanese technical regulations and international guidelines regarding exposure to radio waves. This mobile phone has been designed in observance of the Japanese technical regulations regarding exposure to radio waves <sup>(\*)1</sup>) and limits to exposure to radio waves recommended by equivalent international guidelines.


These international guidelines were set out by the International Commission on Non-Ionizing Radiation Protection (ICNIRP), which is in collaboration with the World Health Organization (WHO), and the permissible limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health condition. The Japanese technical regulations and international guidelines define the limits using a unit of measurement known as the Specific Absorption Rate (SAR), which represents the average amount of radio frequency energy absorbed by the human head. The SAR limit for mobile phones is 2.0 W/kg. The highest SAR value for this mobile phone when tested for use at the ear is 0.424 W/kg. There may be slight differences in SAR levels among individual products, but they all satisfy the limit. The actual SAR of this mobile phone while talking on the phone can be well below that indicated above. This is due to automatic changes in the power level of the mobile phone to ensure it only outputs the minimum power required to communicate with a base station. Therefore in general, the closer you are to a base station, the lower the power output of the mobile phone. This mobile phone can be used in positions other than against your ear. This mobile phone satisfies the international guidelines when used with au Carrying Case F Black (0105FCA) (sold separately)/au Carrying Case G Black (0106FCA) (sold separately) recommended by KDDI <sup>(\*)2</sup>). In case you are not using the au Carrying Case F Black (0105FCA) (sold separately)/au Carrying Case G Black (0106FCA) (sold separately), use a product that contains no metal parts, and one that can hold the mobile phone at least 1.5 cm away from your body.

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- This product is licensed under the MPEG-4 visual and AVC patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 visual standard ("MPEG-4 video") or the AVC standard ("AVC video") and/or (ii) decoding MPEG-4 or AVC video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 and/or AVC video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained MPEG LA, LLC. (\*See <http://www.mpegla.com>). MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson.
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For inquiries, call: Customer Service Center

For general information and charges (toll free)



From fixed-line phones: | From au cell phones:  
 0077-7-111 | 157 without area code

PRESSING ZERO WILL CONNECT YOU TO AN OPERATOR  
AFTER CALLING 157 ON YOUR au CELL PHONE

For loss or theft and operation information (toll free)

From fixed-line phones: | From au cell phones:  
 0077-7-113 | 113 without area code

In case above numbers are not available (toll free).

 0120-977-033 (except Okinawa)  
 0120-977-699 (Okinawa)

Secure cell phone support center

For loss, theft, damage.

From a land-line phone/an au cell phone,  
 0120-925-919 (toll-free)  
Business hours 9:00–21:00 (7 days a week)

Sold by: KDDI CORPORATION, OKINAWA CELLULAR TELEPHONE COMPANY  
Manufactured by: Sony Mobile Communications Inc.

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